

2-6 continued

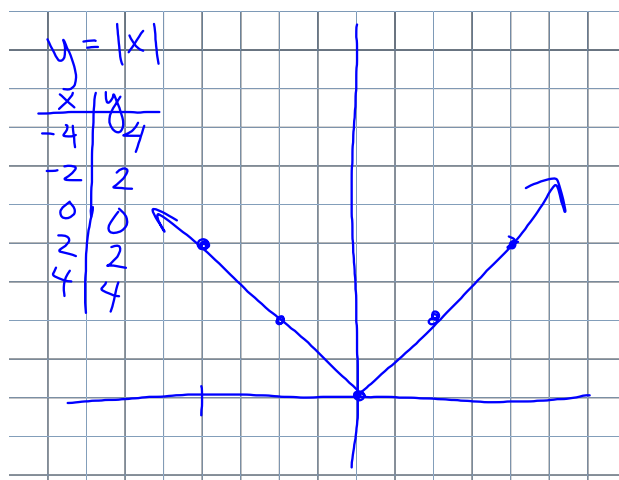
Absolute Value Graphs

$$y = a|x - h| + k$$

Calculator

$$y = |x|$$

$$V(h, k)$$



Summary

$$y = a|x - h| + k$$

a-----controls "slope" (wide or narrow)
negative (upside down)

Vertex--point at bottom or top of graph

V(h, k)

h shifts left and right

k shifts up or down

$$1. V(0, -3)$$

$$a = 1$$

$$y = |x| - 3$$

$$5. V(-1, 1) \quad a = 2 \quad y = 2|x + 1| + 1$$